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Patent Abstract   ✅ Add to cart

GER   2001-04-05   19946874 **Diagnosis by Stellgliedern and sensors of connection with the mixture formation with Brennkraftmaschinen**
ANNOTATED TITLE- Diagnose von Stellgliedern und Sensoren in Verbindung mit der Gemischbildung bei Brennkraftmaschinen

INVENTOR- Langer, Winfried, Dr.   75428 Illingen   DE

APPLICANT- Robert Bosch GmbH   70469 Stuttgart   DE

PATENT NUMBER- 19946874/DE-A1
PATENT APPLICATION NUMBER- 19946874
DATE FILED- 1999-09-30
DOCUMENT TYPE- A1, DOCUMENT LAID OPEN (FIRST PUBLICATION)
PUBLICATION DATE- 2001-04-05
INTERNATIONAL PATENT CLASS- F02D04122; F02D04122D; F02D04118; F02D04122
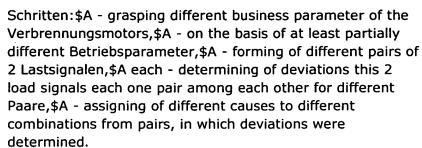**PATENT APPLICATION PRIORITY**- 19946874, A
PRIORITY COUNTRY CODE- DE, Germany, Ged. Rep. of
PRIORITY DATE- 1999-09-30
FILING LANGUAGE- German
LANGUAGE- German   NDN- 203-0481-5797-8

A procedure about the observation of causes is introduced to formation of at least 3 load signals, which represent the air quantity in each case, that streams into the combustion motor, for mistakes in the formation of the Kraftstoff/Luftgemisches for a combustion motor with the

Schritten:$A - grasping different business parameter of the
Verbrennungsmotors,$A - on the basis of at least partially
different Betriebsparameter,$A - forming of different pairs of
2 Lastsignalen,$A each - determining of deviations this 2
load signals each one pair among each other for different
Paare,$A - assigning of different causes to different
combinations from pairs, in which deviations were
determined.

EXEMPLARY CLAIMS- 1. Method about the observation of
causes for mistakes in the formation of the
Kraftstoff/Luftgemisches for a combustion motor with the
steps:, Different business parameter of the combustion
motor grasps, formation of at least 3 load signals, which
represent the air quantity in each case, that streams into the
combustion motor, of the basis of at least partially different
business parameters - forming of different pairs of 2 load
signals each - determining of deviations this 2 load signals
each one pair among each other for different pair - assigning
of different causes to different combinations from pairs, in
which deviations were determined. 2. Method for claim 1,
marked by it, that at least three of the following sizes are
grasped as business parameters, signal of an air mass knife
signal of a speed giver signal of a suction tube printed
sensor, signal of an exhaust fume probe - signal of a fuel
printed sensor. 3. Method for claim 1 or 2, marked by it,
that - a first load signal rl, hfm on the basis of the signal of
an air mass knife is formed - a second load signal rl, ps on
the basis of a suction tube printed giver and a speed giver is
formed and one - third load signal rl-rk on the basis of the
Einspritzzeit, of the signal of a fuel printed sensor and the
signal of an exhaust fume probe constructed:it becomes. 4.
Method for one of the preceding claims, marked by it, that
as different pair of 2 load signals each, one first pair from
first and second load signal is constructed, a second pair
from first and third load signal is constructed - a third pair
from second and third load signal is formed. 5. Method for
claim 3 and 4, marked by it, that with deviations in each pair
of a combination from first, second and third pair a defective
tank ventilation valve as mistake cause is assigned. 6.
Method for claim 3 and 4, marked by it, that with deviations
in the first and in the third pair of a combination from first,
second and third pair a defective suction tube

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